

Castalium News

City Land Will Soon Be Available For Home Builders; Many Lots Are Fully Served With Utilities

All Tax Sale Lots Are Being Re-priced—First Lists Shortly Ready for Approval by Council—Many Inquiries Received for Purchase or Exchange.

It will not be long now before persons who wish to purchase from the city are assured in the tax sale will have the opportunity of going to the banks of the city and securing the bargains in the first list of the city, who have charge of the list of the city, that the first list of values will be ready in about two weeks and the lots included will be the most desirable in the city. It can be understood that the city already has acquired the city land in the city, and before they can be disposed of, the city has to be sold at a fresh valuation and selling price upon each parcel. This price is a free one, and it will be sold, and will have little relation to the property.

Many applications have already been made for lots in the city, and it is expected that the city will have a large number of lots which can be built upon sooner or later. In most cases, the applications are for lots in the city.

FIVE HUNDRED BOY SCOUTS IN PARADE FRIDAY

Headed by Bands, Youngsters Visited New Empire Theatre from Market Square

Five hundred and twenty-five Boy Scouts, the majority in uniform, marched to the market square, Friday morning, on Friday evening at 4:30. They were led by the band of the city, and in attendance, there being patriotic songs, and a few speeches. The boys were in command of the city, and the city was in charge of the parade.

Shortly after 4:30 troops commenced to march in from various parts of the city, and when the time for marching was reached, the boys were in the city, and the city was in charge of the parade.

Travelling by horse, 1914 street and the city, and the city was in charge of the parade. The boys were in the city, and the city was in charge of the parade.

There are 123 organizations in the city, and the city was in charge of the parade. The boys were in the city, and the city was in charge of the parade.

Mrs. Selcher's Daughter

Was Restored to Health by Lydia E. Pinkham's Vegetable Compound

Horton, Wis. "My young daughter, who has been suffering from a long illness, was restored to health by Lydia E. Pinkham's Vegetable Compound. She was very weak and had no appetite, but after taking a few bottles of the compound, she began to eat and her strength returned. She is now as healthy as ever and is very grateful to Lydia E. Pinkham for her kind medicine."

SEEDING WELL ADVANCED IN MOST SECTIONS

During the past week spring work has been well advanced in most sections of the city, and the city was in charge of the parade.

The city has been in charge of the parade, and the city was in charge of the parade. The boys were in the city, and the city was in charge of the parade.

HOME BUILDING IN CITY SHOWS SOME ACTIVITY

Houses Built Are Mainly of the Small or Cottage Type

There is a little flurry in home building, the spring not a great deal, but at the same time a distinct improvement.

A number of building permits are being taken out, and the city was in charge of the parade.

LOCAL SUPREME CRIMINAL COURT TO OPEN TODAY

Important Cases Up for Trial Include Shooting of a Detective

The supreme criminal court will open for regular session Monday, May 16, at 10 o'clock.

ARE SUCCESSFUL IN ATTEMPTING TO OBTAIN A LICENSE

The city was in charge of the parade, and the city was in charge of the parade.

Medical Graduates Are Given Authority to Practice in the Province of Alberta

The city was in charge of the parade, and the city was in charge of the parade.

SKIN TROUBLES SOOTHED WITH CUTICURA

The city was in charge of the parade, and the city was in charge of the parade.

BEVER Pelt Sale

The city was in charge of the parade, and the city was in charge of the parade.

THIS IS Floor Covering Week AT Blowey-Henry's

Replace that worn-out Linoleum or Oil Cloth with bright new patterns

At a "Cyclone" an outfit outfit will be sent to the city, and the city was in charge of the parade.

Cork Carpets

FOR PERMANENT FLOORS

Linoleum Rugs

MAKE SPLENDID DINING ROOM FLOORS

Blowey-Henry Co.

7905 Jasper Avenue

LOCAL CLUBS

WILL EXHIBIT CARDS

Domestic Live Stock Branch

One-third of Prize Money for Competitions

EMPLOYED MEN ACTIVE AT ST. JOHN'S

The city was in charge of the parade, and the city was in charge of the parade.

TANNERY AT YONKERS

The city was in charge of the parade, and the city was in charge of the parade.

The Day in Parliament

The city was in charge of the parade, and the city was in charge of the parade.

Seven Foot, First Class Soda Fountain

The city was in charge of the parade, and the city was in charge of the parade.

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Red. Reg. 20c yard.
For

Business and Professional Directory, Poultry, Livestock, Farm and Dairy Produce

FARMS FOR SALE

WEST END—WELL BUILT, 6 roomed, modern house, in good location, close to city, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

WEST END—CLOSE TO HILL and close to city, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

CENTRAL—ROOFTOP HOUSE with 6 rooms, modern, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

NORTH—6 ROOMS, MODERN house, with 6 rooms, modern, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

LAND and in part of improved land and acreage, special price on offer.

W. E. WESTGATE

"The Land Man" Next to P. O. Box 411, Phone 411.

FOR SALE OR EXCHANGE

FARMS

For EXCHANGE

CLEAR TITLE QUARTER IN 16 miles from city, on a good lot, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

NO ACRE, IMPROVED 10 ACRES suitable, 15 miles from city, on a good lot, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

DANDY QUARTER, EXTRA WELL improved, 15 miles from city, on a good lot, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

NO ACRE, IMPROVED 10 ACRES suitable, 15 miles from city, on a good lot, and on a good lot. Call on owner for particulars. Price \$10,000.00. Call on owner for particulars. Price \$10,000.00.

Chaun, Allison & Co., Ltd.

Grand Tower, Mead Hill, Phone 207.

ARCHITECTS

M. W. MORRISON, A.A. ARCHITECT, 309 Agency Bldg. Phone 500. M-2

MAGDON AND MACDONALD, REG. architects, 1010 10th St. Phone 1010. M-3

A. JEFFERS, A.A. ARCHITECT, 271 Mead Hill, Phone 408. M-4

UNDERWOOD, EDWARD—REGISTERED architect, 1010 10th St. Phone 1010. M-5

FRANK LANDAUER, A.A. ARCHIT., 1010 10th St. Phone 1010. M-6

AUTOMOBILES

TRACON AND MARINE ENGINEERS installing, 600 6th St. Phone 600. M-7

ALBERTA AUTO WORKING & REPAIR shop, 1010 10th St. Phone 1010. M-8

A. H. ALLAN, REG. MOTOR MECHANIC, 1010 10th St. Phone 1010. M-9

AGREEMENTS OF SALE AND MORTGAGE, 1010 10th St. Phone 1010. M-10

AUCTIONEERS

ROBERT THE AUCTIONEER—OFFICE in central bus, 1010 10th St. Phone 1010. M-11

RAMUEL YOUNG, LICENSED AUCTIONEER, 1010 10th St. Phone 1010. M-12

BARRISTERS

CRUMP, E. D. & COMPANY, 1010 10th St. Phone 1010. M-13

DAVISON & DAVISON, BARRISTERS, 1010 10th St. Phone 1010. M-14

G. OLLIPHANT DUNLOP—BARRISTER, 1010 10th St. Phone 1010. M-15

RAIDY P. BELLAMY—BARRISTER, 1010 10th St. Phone 1010. M-16

BICKERMAN PEATY

1010 10th St. Phone 1010. M-17

BELMONT & BELMONT

1010 10th St. Phone 1010. M-18

BELMONT & BELMONT

1010 10th St. Phone 1010. M-19

BARRISTERS

GERARD V. PRINCE, 1010 10th St. Phone 1010. M-20

MURPHY, FRANK A. SHERWOOD, 1010 10th St. Phone 1010. M-21

BETHFORD, AMERSON, GRANT, 1010 10th St. Phone 1010. M-22

BEAVER, E. J. BARRISTER, 1010 10th St. Phone 1010. M-23

BEAVER, E. J. BARRISTER, 1010 10th St. Phone 1010. M-24

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DENTISTS

DR. C. J. MATHIL, DENTIST, OFFICE, 1010 10th St. Phone 1010. M-45

DR. H. M. LANSING, DENTIST, 1010 10th St. Phone 1010. M-46

DR. P. HARRIS, DENTIST, SUITE 101, 1010 10th St. Phone 1010. M-47

DR. L. J. HARRIS, DENTIST, SUITE 101, 1010 10th St. Phone 1010. M-48

DR. L. J. HARRIS, DENTIST, SUITE 101, 1010 10th St. Phone 1010. M-49

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NURSE

NICHOLAS BIRD, NURSE, TEAR 1010 10th St. Phone 1010. M-70

IRMA BIRD, NURSE, TEAR 1010 10th St. Phone 1010. M-71

IRMA BIRD, NURSE, TEAR 1010 10th St. Phone 1010. M-72

IRMA BIRD, NURSE, TEAR 1010 10th St. Phone 1010. M-73

IRMA BIRD, NURSE, TEAR 1010 10th St. Phone 1010. M-74

MIRRORS—Re-Silvering

1010 10th St. Phone 1010. M-75

MACHINERY

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1010 10th St. Phone 1010. M-94

PHYSICIANS AND SURGEONS

DOCTORS—NOTICE, 1010 10th St. Phone 1010. M-95

DR. A. CAMPBELL, SURGEON, 1010 10th St. Phone 1010. M-96

DR. A. CAMPBELL, SURGEON, 1010 10th St. Phone 1010. M-97

DR. A. CAMPBELL, SURGEON, 1010 10th St. Phone 1010. M-98

DR. A. CAMPBELL, SURGEON, 1010 10th St. Phone 1010. M-99

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DOCTORS—NOTICE

1010 10th St. Phone 1010. M-119

FARM PRODUCE IN LARGE QUANTITIES ON CITY MARKET

DEMAND WAS LARGE AND MOST Dealers Found Ready Market for Their Wares.

Large quantities of practically every item in the line of farm produce was offered on the city market yesterday morning, and although the supply offered was much larger than that of a good day, it was still a good one.

DOCTORS—NOTICE

1010 10th St. Phone 1010. M-120

DOCTORS—NOTICE

1010 10th St. Phone 1010. M-12

Coal Kings Winter

Coal and the Balance of Trade.

Canada burned 38 million tons of coal in 1920. Of this amount she produced 17 million tons and imported 21 million. It is a fair calculation that the 21 million tons imported cost an average of \$10 a ton at the boundary, or a total of 210 million dollars. This enormous purchase of coal from the United States helps to swing the balance of trade so heavily against us and depresses our rate of exchange. The 17 million tons produced were worth 170 million dollars in helping the balance of trade and the rate of exchange. Of the total 17 million tons produced by Canada, Alberta produced nearly 7 million tons; an increase of two million tons over 1919, making Alberta the largest coal producer of all the Dominion.

Alberta is said to contain one-fourteenth of the coal supply of the world. How is it that Alberta in 1920 only produced one-sixth of the coal requirements of Canada? That is the question to be answered—the problem to be solved. The capital and labor, the enterprise and industry, that cause Alberta mines to produce coal are engaged in solving that problem by practical means.

Alberta Mines to Adjust Balance.

Coal is heat and power, in condensed and transportable form. The coal production of Alberta must keep step with the growth of the country, or that growth will be seriously retarded. Alberta's coal production increased by two million tons last year, and still, more than two million tons of coal came from Pennsylvania for the consumption west of the lakes; in the field that Alberta mines are best situated to supply. Two million tons of Pennsylvania coal at the head of the lakes meant approximately 20 million dollars on the wrong side of the balance of trade and rate of exchange, and that coal been produced from Alberta mines Canada's balance of trade and the rate of exchange would have been bettered to that extent. Every citizen of Canada is interested in the increased production of Alberta coal mines, but especially so are the citizens of Alberta. The coal industry of Alberta ranks next to agriculture in the present and future importance. But coal production like wheat production depends on all things; it is complete in price and quality with production elsewhere, both local and foreign.

Why Alberta Coal Differs in Quality.

The coal fields of Alberta lie along the base of the Rocky Mountains. The western limit of the coal fields extends into the mountains. The easterly limit is far out on the plains. The coal is of the same basic composition throughout, but the quality of the mountains has subjected the seams located there to greater pressure, and thereby given the coal certain qualities differing from those of the seams which, lying undisturbed on the prairies, have not been subjected to such severe pressure.

Broadly speaking mountain coal is railway coal. Prairie coal is domestic coal. Most of the difference between the two is and is used both for railway and domestic purposes, but finds its best demand in stationary steam plants.

Three Groups of Alberta Coal Fields.

Railway connections and other conditions naturally group the coal mines of Alberta into three fields. Lethbridge, Taber and Crow's Nest are the most southerly field, and the one that has been worked longest and most extensively. Drumheller, Camrose, Hanthard and Noddy, constitute the central field, Edmonton, including the mountain and foothill mines on the G.T.P. and C.N.R. west, is the most northerly field.

The Edmonton field is spread over a much greater area than either of the more southerly fields

and therefore has a larger number of mines and a wider variety of mining conditions. It is divided into three sections. The prairie, the foothills and the mountains. The prairie section produces domestic coal, the foothills steam coal, and the mountains railway coal. Mountain coal is classed as bituminous, foothill coal as semi-bituminous and prairie coal as sub-bituminous.

Edmonton Domestic Coal Field.

The area of the Edmonton domestic coal field is it is now being worked extends from Tofield forty miles east of Edmonton on the G.T.P. to Evansburg, 66 miles west on the same line, and from Battle river, 60 miles south, to Cardiff, 25 miles north of Edmonton. Within that area are 37 operating coal mines; but some of them have only a very small output. The larger mines outside the city have rail connection, and ship by rail both to the city and to outside points. There are several mines within the city limits that only sell to the city, delivering by team to the customer direct from the mine.

The mines within the city are: Dawson, and Twin City on the south side, and the Standard, Chinook, Crown and Reid & Brown on the north side.

In the Clover Bar group, north side, are included: Humbert, Clover Bar, Bush, and Beverley mines. And on the south side: Great West, or Black Diamond, Fraser-McKay, Marcus, Otiswell, and Keith & Fulton. Most of the Clover Bar group ship by rail and team to the city, and to outside points by rail as well. The road consumption from Edmonton post office is from six to twelve miles. Railway connection is by G.T.P. The Cardiff group includes the Alberta, Banner and Cardiff. These mines are 24 miles north of the city. Railway connection is by C.N.

The Namo group includes: Sturgeon Valley Coal Co., Namo Collieries and Kelly Coal Co. Railway connection is with Dunvegan and Watrous railways. There is a million tons of five-foot coal north of the city. Coal is hauled to the city by teams as well as brought by rail.

The Tofield group includes: The Tofield Coal, the Deibel Coal Co. and J. J. McDevitt. The Tofield mines are forty miles east of Edmonton on the G.T.P. These are striping mines.

In the Camrose or Battle river district there are: The Canadian Diamond, and the Spicer Coal Co. at Dinart, the Stoney Creek Collieries at Camrose, the Marcus L. Hyde at Dods, and the Round Hill, George Law, and Atlas at Round Hill. The Round Hill and Dods mines are striping propositions. Railway connection is by C.P.R. Winnipeg line.

West of Edmonton are the Lake-side, at Wabamun, on the G.T.P.; and the V. V. Evansburg on both G.T.P. and C.N.

Other mines near Edmonton are the Big Island, Edmonton Carriage, and H. V. V. Evansburg, and M. Pearson at Calmar west of Leduc.

Men Employed and Coal Shipped.

The number of men employed in the Edmonton domestic coal field last year was 1,800. In the year these mines produced 920,000 tons of coal, or one-third of the domestic and nearly one-sixth of the total production of Alberta mines of all kinds.

Of the 920,000 tons mined, Saskatchewan points took 105,000 tons, Manitoba 51,000 tons, Ontario 363 tons and British Columbia 16,000 tons. Total 172,000 tons, or nearly one-fifth of the whole. The remainder of the output was consumed in Alberta.

In the Competitive Field.

The fact that the Edmonton domestic field is able to ship by rail, Manitoba and British Columbia,

meeting competition both from Pennsylvania and from the southern Alberta fields in the east, and from the Nanaimo mines in the west, is evidence as to the fuel value of Edmonton domestic coal. But while the amount sold in Manitoba and British Columbia shows that it can compete it also shows that there are adverse conditions to be overcome. That the volume of sales is not larger because other coals are in possession of the market. The entry of a new producing field into an established market means readjustment in financial arrangements and in mechanical means and therefore it has to fight its way against odds; and progress at first is necessarily slow. Naturally opposing interests will use every means available to prejudice the minds of consumers against Alberta coal.

The "Lignite" Label.

The most convenient weapon in the hands of those who are interested in opposing the entry of Edmonton domestic coal into the Manitoba market is the improper use of the name "lignite" as applied to Alberta domestic and sub-bituminous coal. Of Lignite Nelson's encyclopedia gives the following description.

"Lignite or 'brown coal' is mostly light, friable and porous, showing its vegetable origin by the retention of the woody structure, or sometimes also of the shapes of leaves, stems and pieces of bark. In burning, lignites give out much smoke, comparatively little heat, and a somewhat unpleasant odor. Chemically they represent an intermediate stage between wood and coal."

Webster's Imperial Dictionary gives the following definition: "Lignite, fossil wood, or brown coal, a combustible substance, mineralized to a certain degree, but retaining the woody texture, and holds a station intermediate between peat and coal."

Edmonton Coal Not Lignite.

The foregoing are no doubt correct descriptions of lignite. Nearly a million tons of Edmonton domestic coal was mined and burned last year. It is within the knowledge conveyed by the experience of the thousands of its users that these descriptions do not apply to Edmonton domestic coal. It is not brown in color; it is not of woody texture; it does not give out more smoke than other coal, it makes a strong heat, and does not give out any unpleasant odor when burning. And yet the name "lignite" attached to Alberta domestic coal conveys the idea to the consumer that it has all the objectionable qualities ascribed to lignite by all the scientific authorities available to him. This natural prejudice can only be overcome by actual experience. That it is being overcome, the large production of Alberta domestic coal clearly shows. But that production could and would be largely increased, to the exclusion of Pennsylvania coal, if the consuming public knew that Alberta domestic coal was "coal," as it is, and not "lignite," as they believe it to be.

Geological Teaching Should Be Adjusted to Facts.

Just how it came that the scientists of Canada called Alberta domestic coal lignite is worthy of mention. Geology says that coal belongs to the carboniferous formation. The formation of Alberta is the carboniferous and not the carboniferous. Therefore the geological sharp at Ottawa gave out the statement that there could not be coal in Alberta. When coal began to be produced, in order to justify their position, they could not but say that it must be lignite. So they called it "lignite," and the name has stuck, to the vast detriment of Canada and of the coal mining industry of Alberta. The name coal was applied in order to get just the facts to go along as then

taught. The time has come that in the interests of Canada, geology should be taught in adjustment with the facts.

The evidence is, that the coal beds of Alberta, throughout, were laid down during the same geological period, under like conditions, and having approximately the same chemical composition. Later on the upheaval of the Rocky Mountains and of the eastern foothills brought to bear heat and pressure on the more westerly beds. This produced certain changes in the character of the coal affected, constituting it steam coal of varying qualities. The coal beds lying on the more easterly plains were not disturbed by the upheaval of the Rockies; were not subjected to heat and pressure, and therefore have not undergone the changes that have given their special qualities to the mountain and foothill coals. But that does not leave them any the less truly coal.

The U.S. Does Not Call "Coal" "Lignite."

In the United States a different course has been followed by geologists of that country in giving names to their several varieties of coal. The Keystone Coal Catalogue, a voluminous and authoritative work has the following on the subject of "sub-bituminous" coal:

"The term 'sub-bituminous' is adopted by the geologists generally for what has usually been called 'black lignite,' a term that is objectionable because the coal is not lignite in the sense of being distinctly woody, and because the use of the term seems to imply that this coal is little better than the brown, woody lignite of North Dakota; whereas many coals of this rank approach in excellence the lowest grade of bituminous coal."

Sub-bituminous coal is generally distinguishable from lignite by its black color and its apparent freedom from distinct woody texture and structure, and from bituminous coal by its less moisture and the consequent breaking down of "clunk" and "clunk" particles when subjected to alternate wetting and drying. Despite the many drawbacks in the shipment of sub-bituminous coal it has found a ready market in much of the western country, because it is a very clean domestic fuel and lignites with little difficulty.

Analysis of Domestic and Railway Coal.

While there are minor differences in the chemical constituents of coal found in different seams and in different sections of the country, the main difference between the domestic coal of the plains and the railway coal of the mountains, is in the higher moisture and lower carbon content of the prairie coals. The Humboldt mine of the Clover Bar group, domestic coal, shows the following analysis: Moisture 14.4, volatile 33.2, ash 9.1, carbon 38.3, H₂ 8.93. The Galt mine railway coal, comparable in results with the best Pennsylvania, shows the following: Moisture 15, volatile 34, ash 10.5, carbon 61.9, H₂ 9.15, 13.70.

This analysis shows that the domestic coal has slightly less ash and slightly more volatile matter than the railway coal. While there is no essential difference in the constituent materials, there is a considerable difference in their proportion. The important difference is that the domestic coal has more moisture and less carbon than the railway coal and therefore has a lower fuel value. Measured in British thermal units the domestic coal has two-thirds of the fuel value of railway coal. Of course that would be a mistake to suppose that there are no variations from the comparative analysis given of the two classes of coal. But the figures given will answer for purposes of comparison when prices

and values are being considered Domestic and Railway Coal Do Not Compete.

The four railway coal mines in the mountains west of Edmonton produced nearly half a million tons of coal last year. Of that amount less than 100,000 tons was sold for other than railway purposes. Obviously the bituminous mines of the mountains and the sub-bituminous mines of the plains do not compete in the same field. The domestic coal mines do not sell to the railways and the railway coal mines do not sell to any considerable amount in the domestic market. Other considerations than the amount of carbon content in the coal enter into its use as fuel. If it were not so, anthracite, which is highest in carbon, would be used by the railways instead of bituminous. But it is not, because for other reasons it is not as suitable for railway purposes. And although the bituminous is higher in carbon content than the domestic, it is not used for domestic purposes for reasons that are sufficient in the minds of consumers. As a matter of fact the respective fields of greatest usefulness for the domestic and sub-bituminous coals are separate and distinct, and therefore given the natural difference in price, proportioned to cost of production and fuel value, and the two kinds of coal do not compete.

Qualities of Edmonton Coal.

Edmonton domestic coal, from whatever group of mines it may come, is clean to handle and as free from ash as anthracite. The importance of this quality in coal for domestic use cannot be overestimated. In this particular it differs radically from the product of the competing fields of Drumheller and Lethbridge, as well as from that of the bituminous and sub-bituminous mines of the mountains and foothills.

It can be used with equal advantage for all domestic purposes: Furnace, heating stove, cook stove or open grate. For the latter purpose, when used in moderately sized pieces, it answers almost as well as anthracite. The domestic coal of the mountains and foothills is worth more than the measure of its heat value, in proportion to the anthracite, in the domestic use; it should be mentioned that a larger fire box is in use or furnace is needed for Alberta domestic than for Pennsylvania anthracite in order to obtain the best results.

Heat Conserved by Light Draft.

For the heating stove it has no superior, and in the basement furnace it requires less attention than any coal. The fire being almost entirely controllable by the drafts. The analysis shows somewhat less ash than the best bituminous. It is less apt to produce clinkers than other coals; only giving an under strong draft. As it burns with less draft than other coal there is consumption than a smaller one, a greater conservation of the heat actually generated in combustion. While the carbon content is less, owing to superior combustion better results are obtained from the carbon actually consumed. Other words the heat is not carried up the flue by the strong draft which is needed to give current with other coals, but is conserved in the furnace.

Moisture Content Only Fault.

While there is no fault to be found with the Edmonton domestic coal in its use, its weak point is that it carries moisture in comparison with large proportions.

This moisture, taking the place of carbon, causes its lower theoretical heating value, as compared with bituminous, which has almost no moisture. Besides, on exposure to the sun and air, the moisture tends to evaporate and the coal to disintegrate. While the disintegration does not reduce its actual fuel content, it seriously decreases its suitability for stove, furnace or grate use, as the fine or slack coal does not permit the ordinary use of the coal. This moisture is a fault to be worked. This slack can be usefully burned with proper appliances, but it is a matter of fact that the Edmonton power plant is operated with coal slack as fuel. But with only such draft and other appliances as are in ordinary use

and values are being considered domestic use slack coal cannot be burned satisfactorily. This is the condition that forms the great obstacle to the use of Alberta domestic coal, and that is worked so industriously on behalf of Pennsylvania anthracite in the competitive field of Manitoba and eastern Saskatchewan.

Basement Storage Efficient Protection.

It is true that anthracite will stand open storage and that Alberta domestic coal will not. But on the other hand there is no need of open storage of Alberta domestic coal, as there is of Pennsylvania anthracite, which makes its journey over the lakes in summer.

The great need for domestic coal is in the winter months. During those months the coal is mined and rushed forward to the consumer without change of air. In any case during the cold weather there is no evaporation, and therefore no disintegration. But of course there is need for domestic coal throughout the year. The basement storage will be of great advantage from and disintegration of Edmonton domestic coal during the months of summer. There is no question as to that fact. Light and the circulation of air should be kept from the coal, in the place in which the coal is held in summer storage, so far as practicable. That is, the less light and air the better. But the coal will keep under any reasonably favorable conditions. Therefore, speaking there is storage room in the ordinary house basement for the summer's coal. In the Edmonton domestic, coal can be stored just as safely as anthracite. Of course, if the coal supply for the summer must be piled in the back yard, anthracite is preferable to Alberta domestic.

Economy in Use of Domestic Coal.

Assuming that a ton of Pennsylvania anthracite is worth \$12.50, a ton of value a ton and a half of Edmonton domestic, and the anthracite cost the consumer \$12.50, the domestic is worth \$8.10. But on its wider range of usefulness and the greater convenience with which it can be used, the domestic is worth more than the measure of its heat value, in proportion to the anthracite, in the domestic use; it should be mentioned that a larger fire box is in use or furnace is needed for Alberta domestic than for Pennsylvania anthracite in order to obtain the best results. As already mentioned the most economical use of the domestic coal is with a light draft, or with the draft reduced to a minimum. Under such conditions a glowing mass of live coals held without flame going up the chimney, and there is no formation of clinkers. A large fire box will hold a larger mass of live coals and therefore radiate greater heat with less fuel loss than other coal there is consumption than a smaller one, a greater conservation of the heat actually generated in combustion. While the carbon content is less, owing to superior combustion better results are obtained from the carbon actually consumed. Other words the heat is not carried up the flue by the strong draft which is needed to give current with other coals, but is conserved in the furnace.

Build Up Canada.

The domestic coal supply of Alberta is inexhaustible. So long as the Rocky Mountains stand to the west and the Hudson Bay to the east, the coal supply of Alberta will not be exhausted. The coal supply of Alberta is not only sufficient to supply the eastern prairies with all their needs, but is sufficient to the west and to Canada. It is to be hoped that there will be no more of the matter of the building up of a great Canadian nation of which these western prairies shall be the heart and strength.



HUMBERSTONE

"Means Your Satisfaction"

Forty Years Coal Mining In Edmonton Is Record of Humberstone Coal Co., Ltd

Interesting Chapter in the Life of the Northern Metropolis is
Furnished by the Operations of Edmonton's Premier Coal
Producer—An Unbroken Chain of Effort Directed in
One Channel, Has Placed Company in an Enviable
Position—Very Old, But Very Modern

One of the most important of the coal fields in the world is the Humberstone coal field, which is situated in the northern part of the province of Alberta. The Humberstone coal field is one of the largest and most productive coal fields in the world, and it is the source of the coal which is used in the Humberstone Coal Co., Ltd. The Humberstone Coal Co., Ltd. is a company which has been in operation for forty years, and it has a long and successful record in the coal mining industry.

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FIRST It is high quality domestic coal.

SECOND Careful and thorough preparation by up-to-date machinery, followed by hand picking, has made "Humberstone" a household word in thousands of homes in Western Canada.

THIRD Hundreds of Edmonton Citizens stock Humberstone Coal every spring because *It Stores Better.*

FOURTH It is screened for your convenience into three sizes, **LUMP, KITCHEN and NUT.**

Better Order a Load Today

THE HUMBERSTONE COAL COMPANY LTD.

PRODUCERS OF HIGH-GRADE COAL

Highest Natural Quality Plus
Superior Preparation and Service

Sales Office (Retail)

201 McLeod Building

Phones 2248 and 2258

Retail Yard

Cor. 96 St. and 104 Ave.

Phone 1492

obtained by Mr. Shelden to have been a considerable advance in the industry. In making the quality of Alberta coal known to the residents of Humberstone, which together with the Humberstone, extensive advertising and that of other companies has had the effect of widening the market, and making a more pronounced reaction on the economy.

Provided that the government has not yet decided on the matter, the Humberstone Coal Co., Ltd. is in a position to supply the coal to the residents of Humberstone, which together with the Humberstone, extensive advertising and that of other companies has had the effect of widening the market, and making a more pronounced reaction on the economy.

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[illegible]

EDMONTON, ALBERTA

Slack Equals Lump Coal

IF USED WITH

Jones Under-Feed Stokers

(CANADIAN MADE)

In Efficient burning of Western domestic coal slack, Jones' Stokers are commanding the attention of all engineers.

Ten Points of Jones Superiority

1. *Simplicity*
2. *Low Maintenance*
3. *High Efficiency*
4. *Automatic Cleaning*
5. *Prevention of Smoke*
6. *Absence of Clinkers on Side and Bridge Walls*
7. *Heavy Overload Capacity.*
8. *Minimum of Moving Parts*
9. *Individual Control of Retorts.*
10. *Automatic Control of Fuel and Air*

The following is the result of a test conducted at the Camrose municipal power plant by the officials of the Great West and Humberstone Coal Companies. For a period of three hours 153 per cent. of manufacturer's rating was developed.

Date of test	April 1st, 1920
Duration of test in hours	3
Type of boiler	1 H.T.
Size of boiler	72' x 18'
Builder's rating H.P.	130
Method of firing	JONES' UNDERFEED STANDARD STOKERS

FUEL

Kind of coal	Humberstone Domestic Slack
Calorific value of fuel	8,500 B.T.U.
Total weight of coal fired in lbs.	9,240
Total weight of ash, clinker and refuse	1,169
Per cent. of ash, clinker and refuse	12.64

FEED WATER

Total weight of water evaporated in lbs.	52,337.44
Average weight of water evaporated per hour in lbs.	6,512.15

AVERAGE PRESSURE, TEMPERATURE, ETC.

Average temperature of feed water entering boiler in degrees F.	202
Average steam pressure by gauge in lbs.	139
Average pressure of air in air chamber in inches of water	1.15
Average furnace draft in inches of water045
Average H.P. developed by boiler	201
Per cent. of builder's rating developed	134
Factor of evaporation	1.06
C. 02 average	11.7

ECONOMIC RESULTS.

Water evaporated from and at 212 degrees, per lb. of coal fired in lbs.	6.003
Water evaporated actual conditions per lb. of coal fired in lbs.	5.664
Combined efficiency boiler and furnace per cent.	68
Copies of test on Drumheller and other coals will be supplied on application.	

The Under-Feed Stoker Company

of Canada, Limited

Officers and Directors.

Wm. Harris, President.
 R. A. Armstrong, Vice Pres. & Man. Tr.
 J. A. Ross, Vice Pres. & M.
 Harry J. Miller
 T. A. Brown
 David Fraser, M.C.
 A. W. Houtman.

J. TWOMEY

Sales Representative

Camrose, Alberta

COAL

COAL

COAL

COAL

"BLACK GEM" "QUALITY COAL"

MINED AT CLOVER BAR /

For Sale By MACKAY COAL COMPANY LIMITED

**MINE RUN
FOR
STEAM PLANTS**

**EXTRA SPECIAL LUMP
OVER 6" SCREENS
IT'S REAL LUMP**

**SPECIAL KITCHEN
FOR
SUMMER USE**

WILL GIVE THE DESIRED RESULTS

The following analysis, made by J. A. Kelso, M.Sc., Director of Industrial Laboratories, Analyst Provincial Laboratory, will prove the high quality of our coal—

	As received	Moisture Free
Moisture	17.40	0.0
Volatiles Matter	32.95	39.89
Fixed Carbon	44.45	53.81
Ash	5.20	6.30
Heating Value in B.T.U.	9,430	11,410

With a modern plant at our mine, equipped with the latest and most efficient type of shaking screens to properly prepare our coal for the market, and a daily capacity of 500 tons, we are in a position to supply a large number of customers with the BEST QUALITY OF COAL, PREPARED IN THE BEST POSSIBLE MANNER.

Whether your order be for one ton, a wagon load, car load, or your contract for a year's supply for heating or power purposes, it will receive the same careful attention, and we shall be glad to give any information desired.

PHONE 1916

MACKAY COAL COMPANY, LIMITED

EDMONTON

(NORTH WEST COAL CO., Edmonton, Distributing Agents, Alberta, Saskatchewan and Manitoba)

ALBERTA

Fourteen Years Serving Edmonton's Coal Needs is the Trade Record of W.C. MacKay

Edmonton Coals from Local Mines Distributed to City Consumers Over Long Period—Mackay Coal Co., Ltd., with Knowledge of Local Conditions, Has Built Up Large Business in Edmonton—A Story of Efficiency.

W. C. MacKay, of the Mackay Coal Company, Limited, has been longer in the field than any other coal dealer in Edmonton, actively engaged in the business, and from a relatively modest initial production the enterprise has grown, so that now all classes of consumers in the city are catered to. A dollar's worth of coal for a dollar has been the motto on which the business has been built; personal supervision has always been exercised in the selecting of the various grades of coal, and every load of coal which goes out is thoroughly inspected, to insure the satisfaction of the customer and repeat orders for the company.

Previous to embarking on an independent business career, Mr. MacKay had for eight years been manager of a local coal company, but, anxious of the opportunity which existed for a specialized organization for supplying special grades of coal for particular needs, in 1915 he organized the Mackay Coal Company, Limited. Since the formation of the company, its policy has followed that of the originator, and the scheme of domestic coal, properly screened and graded, to meet the varied requirements of city blocks, and the different phases of heating requirements. From 1915 forward, Mr. MacKay was in a position to bring to fruition a plan of a system of coal selection and delivery, which he well knew would be of benefit to his customers and the means of keeping his order books well filled. In 1917 owing to the increase of business, the Mackay Coal Company Limited, found it necessary to be in control of all operations from seam to delivery, so that they might be in a position to carry on the business along the lines which Mr. MacKay had originally mapped out and supply the citizens with domestic coal selected

South, in addition to schools, apartments and blocks. Accommodated with Mr. MacKay is Norman Fraser, a mining engineer of long experience, who is in charge of the producing end. Mr. Fraser came to Canada twenty years ago, and after being in charge of some large mines in the Crow's Nest Pass, came to Edmonton where he has been engaged in opening operations for 15 years, as well as having served as provincial inspector of Mines. No man in the province is better qualified to handle mining, the coal output gets personal attention from Mr. Fraser, while the combination of a specialist at both ends of the business is one of the factors which Mr. MacKay claims is directly responsible for the company's success.

"The absolute lapidary" who has no interest in the business other than the production of profits, is a factor which does not enter into the make-up of the Mackay companies—the company is a local one, under local help, paying city taxes, while the local supervision at both ends of the business is palpably a condition which makes for efficiency.

These needs of the Mackay coal by the city power plant and by Professor K. MacKay, who has been equal to the test, and much superior to many coal mined in the Edmonton district. It is estimated that the property contains a total of one million tons. This fuel is clean, free burning and there are no impurities of any description in the seam, the coal being of the sub-bituminous type, and not lignite. The latter title is often applied to the product of the Edmonton coal fields, but is entirely incorrect.

The Fraser-Mackay Collieries are situated on the south side of the river close to the Grand Trunk Pacific bridge, in the beautiful Clover Bar district, and since taken over by the present owners have been developed and improved in many ways. During 1920 a double compartment mine was sunk in the centre of the property to a depth of one hundred feet. A new triple containing modern cleaning and grading apparatus was erected, while the railway track was brought into the mine and the present time three coal cars are loaded at three distinct tracks, with various grades of coal at one

time. The mine cars are dumped by the use of a special device, and in common with the other operations of the company the important matter of grading and selecting the coal at the mine head is maintained efficiently. Development underground is going ahead on the same scale as the surface operations, the approximate annual output being in the region of 40 to 50 thousand tons.

The usual mine equipment and the mine bottom to the tipple head. Last winter's operations employed the services of 10 to 20 men, and the company expect to employ 125 next cold season. There is no gas in the mine, hence open lights are used.

Quality of the product is evidenced by the following analysis made by Professor Kelso, of the University of Alberta:

Analysis	
Received	Moisture Free
Moisture	17.40 0.0
Volatiles Matter	32.95 39.89
Fixed Carbon	44.45 53.81
Ash	5.20 6.30
British Thermal Units	9,430 11,410

The property of the company has been well proved, its development is of an intensive and practical nature, and with the business which has been built up during the past fourteen years, it is the forerunner of the future.

It is a foregone conclusion that the Mackay Coal Company, Limited, will maintain its place which it has won by that desirable factor known as "efficient attention to business."

The North-West Coal Company of Edmonton, is the agent for the sale and distribution of the company's products into the city, and all rural points are served by this organization.

EDMONTON'S DOMESTIC COAL

Makes no soot.
Clean as anthracite.
Kindles quickly.

Burns steadily.
Is controlled perfectly by grate.
regulation of draft.

Good in range, furnace or
Small ash content.

THE EDMONTON BULLETIN

MAINTAINS THE ONLY 24-HOUR CANADIAN
PRESS NEWS SERVICE WEST OF WINNIPEG

Editors:
MORNING
EVENING
TWICE-A-WEEK
All the News All the Time.

The City Tribune News Service the
Morning Bulletin
The City Working Man Reads the
Evening Bulletin
The Farmer Reads the
Semi-Weekly Bulletin

THE MORNING BULLETIN

IS THE ONLY MORNING PAPER PUBLISHED IN CENTRAL OR NORTHERN ALBERTA, POPULATION OVER A QUARTER MILLION. 70,000 IN EDMONTON. 300,000 IN SURROUNDING COUNTRY. REVENUE MORNING TRAINS A DAY (THE WEEKLY AVERAGE) DISTRIBUTE MORNING BULLETINS TO SURROUNDING RAILWAY POINTS. THREE EVENING TRAINS A DAY (THE WEEKLY AVERAGE) DISTRIBUTE EVENING BULLETINS TO SURROUNDING RAILWAY POINTS.

The Bulletin publishes the only actual Twice-a-Week edition west of Winnipeg.

It promptly catches all rural made. It is the farmer's paper.

It has a larger rural circulation than any other paper in Central and Northern Alberta. Results count.

The Bulletin reaches the people with the news, while it is news. YOU can reach the people through its advertising columns.

It has been 40 years in business. People read it because it gives them service and because they believe in it.

ADVERTISING RATES ON APPLICATION

ALBERTA COAL

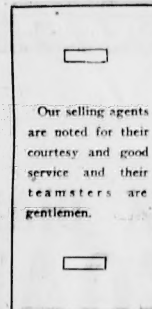
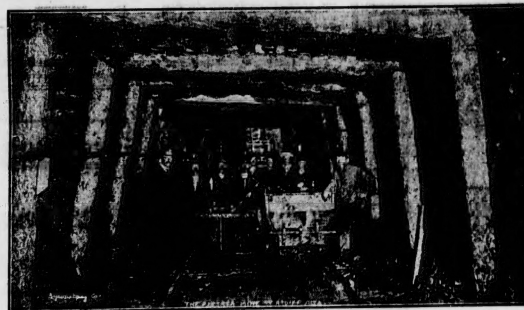
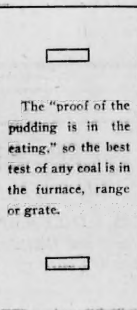
For Domestic and Steam Purposes

ALBERTA COAL

Delivers the maximum heat value per dollar invested

ALBERTA COAL

Is easy to handle and gives satisfaction. We have mined coal in Alberta nearly twenty years, and fourteen years in our present mine—



Our reputation for deliveries on contracts is without a blemish.

Satisfied customers are preferred as a testimonial rather than a chemist's report on B.T.U.'s and fixed carbon, etc., which few people understand or care for—and at the same time we can furnish such tests equal to any coal mined, if requested.

ALBERTA COAL IS GOOD COAL

and is sold wholesale and retail by

The Great Northern Coal Co. Ltd.

Send in your orders for car lots or ton lots

104 st. and 104 Avenue

Phone 6355

Mr. JAS. BELL
and
Mr. A. E. NICKERSON

Also By

T.G. THURSTON
and CO.
South Side Phone 3425
